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### 1 [Connection set-up and QoS monitoring in ATM networks](#)

Sin-Lam Tan, Chen-Khong Tham, Lek-Heng Ngho

May 2003 International Journal of Network Management, Volume 13

Issue 3

Publisher: John Wiley &amp; Sons, Inc.

 Full text available: [pdf\(509.99 KB\)](#) [Additional Information: full citation, abstract, references, index terms](#)

This paper describes a system for creating virtual connections based on QoS requirements and providing basic QoS routing functionality. It effectively bridges the gap between complex protocols like PNNI and tedious manual set-up of virtual connections.

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### 2 [Hardware assisted high level debugging: preliminary draft](#)

W. Morven Gentleman, Henry Hoeksma

March 1983 SIGSOFT '83: Proceedings of the symposium on High-level debugging

Publisher: ACM

 Full text available: [pdf\(459.23 KB\)](#) [Additional Information: full citation, abstract, references](#)

Hardware assistance has long been used for logic level and functional unit level hardware debugging, as well as for machine language level software debugging. Such hardware assistance includes probes to detect signals, comparators to identify matches ...

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and Computing  
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### 3 [Monitoring QoS distribution in multimedia networks](#)

Chen-Khong Tham, Yuming Jiang, Chi-Chung Ko

March 2000 International Journal of Network Management, Volume 10

Issue 2

Publisher: John Wiley &amp; Sons, Inc.


 Full text available: [pdf\(372.73 KB\)](#) [Additional Information: full citation, abstract, references, cited by, index terms](#)


This paper presents two schemes, relevant monitor & lpar;RM&rpar;; -

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based and improved relevant monitor &Ipar;-based, for QoS distribution monitoring. With these schemes, when monitoring a real-time flow, a network manager can locate relevant monitors ...

#### 4 [A wireless sensor network For structural monitoring](#)


 Ning Xu, Sumit Rangwala, Krishna Kant Chintalapudi, Deepak Ganesan, Alan Broad, Ramesh Govindan, Deborah Estrin  
November 2004 SenSys '04: Proceedings of the 2nd international conference on Embedded networked sensor systems  
Publisher: ACM


Full text available:  [pdf\(791.28 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms

Structural monitoring--the collection and analysis of structural response to ambient or forced excitation--is an important application of networked embedded sensing with significant commercial potential. The first generation of sensor networks for structural ...

Keyw ords: Widen, sensor network, structural health monitoring

#### 5 [High-level synthesis of digital microfluidic biochips](#)


 Fei Su, Krishnendu Chakrabarty  
January 2008 ACM Journal on Emerging Technologies in Computing Systems (JETC), Volume 3 Issue 4  
Publisher: ACM


Full text available:  [pdf\(1.60 MB\)](#) Additional Information: full citation, abstract, references, index terms

Microfluidic biochips offer a promising platform for massively parallel DNA analysis, automated drug discovery, and real-time biomolecular recognition. Current techniques for full-custom design of droplet-based "digital" biochips do not scale ...

Keyw ords: High-level synthesis, biochips, microfluidics, scheduling, system-on-chip

#### 6 [User-level internet path diagnosis](#)

 Ratul Mahajan, Neil Spring, David Wetherall, Thomas Anderson  
October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles  
Publisher: ACM

Full text available:  [pdf\(403.57 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms

Diagnosing faults in the Internet is arduous and time-consuming, in part because the network is composed of diverse components spread across many administrative domains. We consider an extreme form of this problem: can end users, with no special privileges, ...

Keyw ords: measurement tools, path diagnosis

# 7 [An algebraic approach to practical and scalable overlay network monitoring](#)



Yan Chen, David Bindel, Hanhee Song, Randy H. Katz

August 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 4

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),

Full text available: [pdf\(461.14 KB\)](#)

[references](#), [cited by](#), [index terms](#)

Overlay network monitoring enables distributed Internet applications to detect and recover from path outages and periods of degraded performance within seconds. For an overlay network with  $n$  end hosts, existing systems either require  $O(n^2)$  ...

Keywords: dynamics, load balancing, network measurement and monitoring, numerical linear algebra, overlay, scalability

# 8 [Bottleneck detection in UMTS via TCP passive monitoring: a real case](#)



Fabio Ricciato, Francesco Vacirca, Martin Karner

October 2005 CoNEXT '05: Proceedings of the 2005 ACM conference on Emerging network experiment and technology

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),

Full text available: [pdf\(469.35 KB\)](#)

[references](#), [cited by](#), [index terms](#)

In this work we address the problem of inferring the presence of a bottleneck from passive measurement in the UMTS core network. The study is based on one month of packet traces collected in the core network of mobilkom austria AG & Co KG, the leading ...

Keywords: UMTS, bottleneck detection

# 9 [An algebraic approach to practical and scalable overlay network monitoring](#)



Yan Chen, David Bindel, Hanhee Song, Randy H. Katz

August 2004 SIGCOMM '04: Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),

Full text available: [pdf\(461.14 KB\)](#)

[references](#), [cited by](#), [index terms](#)

Overlay network monitoring enables distributed Internet applications to detect and recover from path outages and periods of degraded performance within seconds. For an overlay network with  $n$  end hosts, existing systems either require  $O(n^2)$  ...

Keywords: dynamics, load balancing, network measurement and monitoring, numerical linear algebra, overlay, scalability

10 [A framework for wireless LAN monitoring and its applications](#)

Jihwang Yeo, Moustafa Youssef, Ashok Agrawala

October 2004 WiSe '04: Proceedings of the 3rd ACM workshop on Wireless security

Publisher: ACM

Full text available: [pdf\(1.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Many studies on measurement and characterization of wireless LANs (WLANs) have been performed recently. Most of these measurements have been conducted from the wired portion of the network based on wired monitoring (e.g. sniffer at some wired point) ...

Keywords: anomaly, security, traffic characterization, wireless LAN, wireless monitoring

11 [Devising an architecture for time-critical information services: inter-organizational performance data components for emergency medical service \(EMS\)](#)

Benjamin Schooley, Michael Marich, Thomas Horan

May 2007 dg.o '07: Proceedings of the 8th annual international conference on Digital government research: bridging disciplines &amp; domains

Publisher: Digital Government Research Center

Full text available: [pdf\(445.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper reports on a case study analysis of a county-wide emergency medical services (EMS) system striving to implement information technology across service provider organizations (e.g., fire, ambulance, dispatch center, hospitals) to enhance e-governmental ...

Keywords: architecture, e-government, emergency medical services, emergency response, performance, time-critical information services

12 [Exploiting self-monitoring sample views for cardinality estimation](#)

Per-Ake Larson, Wolfgang Lehner, Jingren Zhou, Peter Zabback

June 2007 SIGMOD '07: Proceedings of the 2007 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: [pdf\(492.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Good cardinality estimates are critical for generating good execution plans during query optimization. Complex predicates, correlations between columns, and user-defined functions are extremely hard to handle when using the traditional histogram approach. ...

Keywords: cardinality estimation, query optimization, sample views, sequential sampling, statistical quality control

13 [Wideband spectrum probe for distributed measurements in cellular band](#)



Nilay Shah, Theodoros Kamakaris, Uf Tureli, Milind Buddhikot  
 August 2006 TAPAS '06: Proceedings of the first international workshop on  
 Technology and policy for accessing spectrum  
 Publisher: ACM

Full text available: pdf(344.99 KB) Additional Information: full citation, abstract,  
 references, index terms

One of the foremost critical design problems in cognitive radios is the need to process wide bandwidth and reliably detect the presence of primary users. This places significant requirements on sensitivity, dynamic range and linearity of the RF front-end. ...

#### 14 Monitoring hacker activity with a Honeynet

Kevin Curran, Colman Morrissey, Colm Fagan, Colm Murphy, Brian O'Donnell, Gerry Fitzpatrick, Stephen Condit  
 March 2005 International Journal of Network Management. Volume 15  
 Issue 2  
 Publisher: John Wiley & Sons, Inc.

Full text available: pdf(434.12 KB) Additional Information: full citation, abstract,  
 references, index terms

The Honeynet Project was founded by 30 US based security professionals with the intention of researching the techniques, tools, tactics and motives of hackers and the 'blackhat' community in general. A Honeynet Project is an all volunteer, non-profit ...

#### 15 An open architecture for transport-level protocol coordination in distributed multimedia applications



David E. Ott, Ketan Mayer-Patel  
 August 2007 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP). Volume 3  
 Issue 3  
 Publisher: ACM

Full text available: pdf(343.09 KB) Additional Information: full citation, abstract,  
 references, index terms

We consider the problem of flow coordination in distributed multimedia applications. Most transport-level protocols are designed to operate independently and lack mechanisms for sharing information with other flows and coordinating data transport in ...

Keywords: Network protocols, distributed applications, flow coordination

#### 16 The internet AS-level topology: three data sources and one definitive metric



Priya Mahadevan, Dmitri Krioukov, Marina Fomenkov, Xenofontas Dimitropoulos, kc claffy, Amin Vahdat  
 January 2006 ACM SIGCOMM Computer Communication Review. Volume 36 Issue 1  
 Publisher: ACM

Additional Information: full citation, abstract,

Full text available:  pdf(340.18 KB)

[references](#), [cited by](#), [index terms](#)

We calculate an extensive set of characteristics for Internet AS topologies extracted from the three data sources most frequently used by the research community: traceroutes, BGP, and WHOIS. We discover that traceroute and BGP topologies are similar ...

**Keywords:** internet topology

# 17 Runtime Power Monitoring in High-End Processors: Methodology and Empirical Data

Canturk Isci, Margaret Martonosi

December 2003 MICRO 36: Proceedings of the 36th annual IEEE/ACM

International Symposium on Microarchitecture

Publisher: IEEE Computer Society

Full text available:  pdf(921.50 KB)

**Additional Information:** [full citation](#), [abstract](#), [cited by](#), [index terms](#)

With power dissipation becoming an increasingly vexing problem across many classes of computer systems, measuring power dissipation of real, running systems has become crucial for hardware and software system research and design. Live power measurements ...

# 18 Public real data repositories and measurement tools




Michalis Faloutsos

April 2006 ACM SIGCOMM Computer Communication Review, Volume 36

Issue 2

Publisher: ACM

Full text available:  pdf(87.64 KB)

**Additional Information:** [full citation](#), [index terms](#)

**Keywords:** data and measurements

# 19 Challenges and approaches in providing QoS monitoring

Yuming Jiang, Chen-Khong Tham, Chi-Chung Ko

November 2000 International Journal of Network Management, Volume

10 Issue 6

Publisher: John Wiley & Sons, Inc.

**Additional Information:** [full citation](#), [abstract](#),

Full text available:  pdf(209.17 KB)

[references](#), [cited by](#), [index terms](#)

This paper presents a brief survey of current QoS monitoring-related mechanisms, followed by a discussion of the challenges involved in providing QoS distribution monitoring. Several approaches are then proposed to meet these challenges. Finally, the ...


# 20 Monitoring and controlling QoS network domains

Ahsan Habib, Sonia Fahmy, Bharat Bhargava

January 2005 International Journal of Network Management, Volume 15

Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(234.00 KB) Additional Information: full citation, abstract,  
references, index terms





Increased performance, fairness, and security remain important goals for service providers. In this work, we design an integrated distributed monitoring, traffic conditioning, and flow control system for higher performance and security of network domains. ...

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